

What is Claimed is:

1. A pressure-sensitive adhesive cover tape comprising a polyester substrate having coated on at least a portion of at least one major surface thereof:

5 a) a layer of an electrically conductive coating comprising a dispersion of a conductive polymer selected from the group consisting of polythiophenes and polyanilines, said polymer having a conjugated polymer backbone, said dispersion containing at least one polymeric polyanion compounds, and at least one binder, and

10 b) a layer comprising a polymeric pressure-sensitive adhesive composition,

said tape having a degree of clarity of from about 80% to about 99%, and a surface resistance of from about 1×10^4 to about 1×10^{12} Ohm.

15 2. A pressure-sensitive adhesive cover tape according to claim 1 wherein said tape further includes a low-adhesion backing releasably adhered to said polyester substrate.

3. A pressure-sensitive adhesive cover tape according to claim 1 wherein said clarity is from 90% to about 99%.

20 4. A pressure-sensitive adhesive cover tape according to claim 1 wherein said polythiophene dispersion comprises (poly-3,4-ethylenedioxy)thiophene.

5. A pressure-sensitive adhesive cover tape according to claim 1 wherein said polymeric polyanion compound comprises at least one acidic polymer, said polymer being in a form selected from a free acid or a salt form.

25 6. A pressure-sensitive adhesive cover tape according to claim 1 wherein said binder is selected from the group consisting of copolyesters containing sulfonic acid groups.

7. A carrier tape for electronic component transportation, comprising parallel strip portions in a lengthwise direction of said tape, said strip portions having top and bottom surfaces, and between said parallel strip portions, a plurality of indented segments for accommodating electronic components formed
- 5 intermittently in said lengthwise direction of said tape, and a pressure-sensitive adhesive cover tape for releasably sealing said indented segments, said cover tape having parallel bonding portions being adhesively bonded to said top surface of said parallel strip portions, said cover tape comprising a polyester substrate having coated on at least one portion of at least one major surface thereof,
- 10 a) an electrically conductive coating comprising a dispersion of a conductive polymer selected from the group consisting of polythiophenes and polyanilines, said polymer having a conjugated polymer backbone, at least one polymeric polyanion compound, and at least one binder, and
- b) a polymeric pressure-sensitive adhesive composition coated
- 15 on at least one bonding portion of said cover tape, said cover tape having a degree of clarity of from about 80% to about 99%, and a surface resistance of from about 1×10^4 to about 1×10^{12} Ohm.
8. A carrier tape according to claim 7 wherein said cover tape further indicates a low-adhesion backing releasably adhered to said polyester substrate.
- 20 9. A carrier tape according to claim 7 wherein said clarity is from 90% to about 99%.
10. A carrier tape according to claim 7 wherein said polythiophene dispersion comprises (poly-3,4-ethylenedioxy)thiophene.
11. A carrier tape according to claim 7 wherein said polymeric
- 25 polyanion compound comprises at least one acidic polymer, said polymer being in a form selected from a free acid or a salt form.
12. A carrier tape according to claim 7 wherein said binder is selected from the group consisting of copolyesters containing sulfonic acid groups.

13. A carrier tape according to claim 7 wherein said pressure-sensitive adhesive composition is coated onto said substrate as a single continuous layer having an attachment surface and an opposing surface, wherein at least a portion of said opposing surface is covered by a second substrate, said second substrate
5 having said layer of said electroconductive coating coated thereon.

14. A carrier tape according to claim 13 having an additional layer of said electroconductive coating atop said polyester substrate.

15. A carrier tape according to claim 7 wherein said substrate has a layer of said electroconductive coating coated thereon and atop said
10 electroconductive coating, parallel stripes of said pressure-sensitive adhesive composition being coated on said parallel bonding portions of said cover tape.